

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
14 July 2005 (14.07.2005)

PCT

(10) International Publication Number
WO 2005/064983 A1

(51) International Patent Classification⁷: **H04Q 11/00**,
H04L 12/56

Romoli, 274, I-10148 Torino (IT). **SPADARO, Salvatore** [IT/IT]; Universitat Politècnica de Catalunya, Jordi Girona, 31, E-08034 Barcelona (ES). **SOLE' PARETA, Josep** [ES/ES]; Universitat Politècnica de Catalunya, Jordi Girona, 31, E-08034 Barcelona (ES). **PISA MARTINEZ, Oscar** [ES/ES]; Telecom Italia S.p.A., Via G. Reiss Romoli, 271, I-10148 Torino (IT).

(21) International Application Number:
PCT/EP2003/014800

(74) Agents: **GIANNESI, Pier Giovanni** et al.; Pirelli & C. S.p.A., Viale Sarca, 222, I-20126 Milano (IT).

(22) International Filing Date:
23 December 2003 (23.12.2003)

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,

(26) Publication Language: English

[Continued on next page]

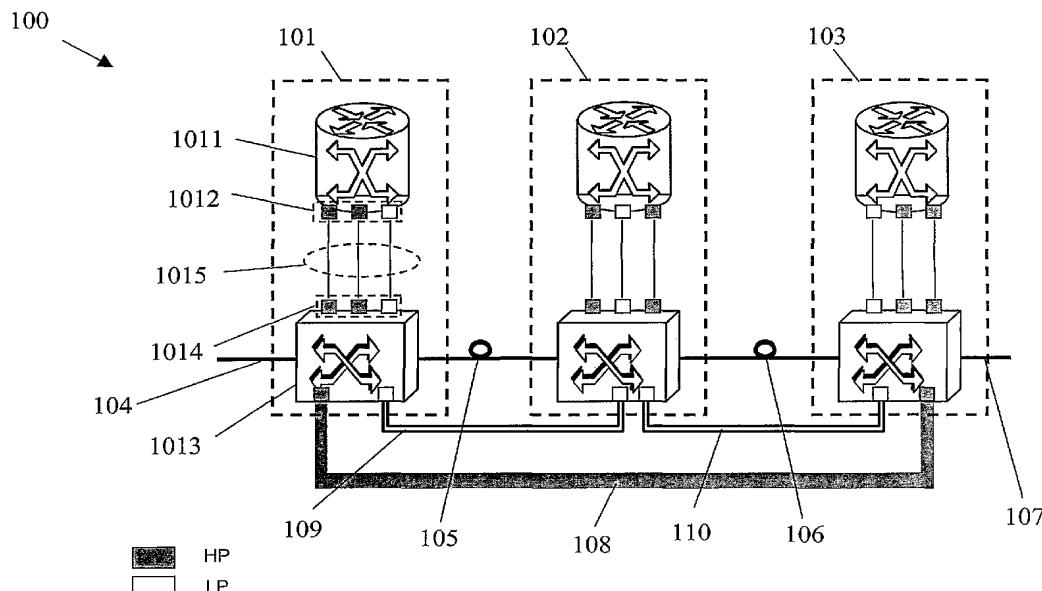
(71) Applicant (for all designated States except US): **TELECOM ITALIA S.P.A.** [IT/IT]; Piazza degli Affari, 2, I-20123 Milano (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MANZALINI, Antonio** [IT/IT]; Telecom Italia S.p.A., Via G. Reiss Romoli, 274, I-10148 Torino (IT). **D'ALESSANDRO, Alessandro** [IT/IT]; Telecom Italia S.p.A., Via G. Reiss



(54) Title: SYSTEM AND METHOD FOR THE AUTOMATIC SETUP OF SWITCHED CIRCUITS BASED ON TRAFFIC PREDICTION IN A TELECOMMUNICATIONS NETWORK



WO 2005/064983 A1

(57) Abstract: An optical network is configured so as to dedicate a first portion of lightpaths to high priority traffic, and leaving a second portion of lightpaths available for low priority traffic. The high priority traffic entering the high priority lightpaths is monitored. In case of detection of a burst in high priority traffic, at least one of the low priority lightpaths is torn down, so as to make available network resources within the network. Then, a new temporary lightpath is set up using the available network resources, and high priority traffic is routed on the temporary lightpath.



ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM,*

KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

— *of inventorship (Rule 4.17(iv)) for US only*

Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.